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- What Can I Access?
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- What Can I Access?
- Log-out

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- Journals & Magazines
- Conference Proceedings
- Standards

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- Basic
- Advanced
- CrossRef

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Image Processing, 1997. Proceedings., International Conference on , Volume: 3 , 26-29 Oct. 1997

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2 Blocking artifact reduction of DCT coded image sequences using a visually adaptive postprocessing

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Image Processing, 1996. Proceedings., International Conference on , Volume:

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3 A fractional chip wavelet zero tree codec (WZT) for video compression

Kolarov, K.; Lynch, W.; Arrighi, B.; Hoover, B.;

Data Compression Conference, 1999. Proceedings. DCC '99 , 29-31 March 1999

Pages:535

[Abstract] [PDF Full-Text (8 KB)] IEEE CNF

4 Reducing the computational complexity of a MAP post-processing algorithm for video sequences

Robertson, M.A.; Stevenson, R.L.;
Image Processing, 1998. ICIP 98. Proceedings. 1998 International Conference on , Volume: 1 , 4-7 Oct. 1998
Pages:372 - 376 vol.1

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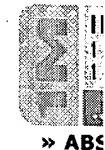
5 Coding of advanced TV for BISDN using multiple subbands

Fleischer, P.E.; Chen, T.C.; Lei, S.M.;
Circuits and Systems, 1990., IEEE International Symposium on , 1-3 May 199
Pages:1314 - 1318 vol.2

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Derviaux, C. Coudoux, F.-X. Gazelet, M.G. Corlay, P.

Dept. O.A.E., Valenciennes Univ., France;

This paper appears in: Image Processing, 1996. Proceedings., International Conference on

Meeting Date: 09/16/1996 - 09/19/1996

Publication Date: 16-19 Sept. 1996

Location: Lausanne Switzerland

On page(s): 5 - 8 vol.2

Volume: 1

Reference Cited: 4

Number of Pages: 3 vol. (xlviii+1029+1067+1073)

Inspec Accession Number: 5572273

Abstract:

The blocking effect is known to be the major degradation in block based video **compression** techniques. In this paper, we describe an adaptive postprocess algorithm for the reduction of blocking effect in video coded sequences. It is a visual model for the prediction of blockiness visibility. The postfiltering operates on a 3D adaptive **filter**. A space-variant spatial **filter** is first used to smooth the block boundaries where the blocking effect is highly visible. It is followed by a compensated nonlinear filtering in the temporal domain. Experimental results presented showing that the proposed algorithm can remove the blocking effect keeping image sharpness

Index Terms:

adaptive filters data compression discrete cosine transforms image sequences suppression motion compensation multidimensional digital filters nonlinear filters methods spatial filters time-domain analysis transform coding video coding 3D filter DCT coded image sequences adaptive postprocessing algorithm block based compression techniques block boundaries blockiness visibility blocking artifact re

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S3	25673	S2 sam evideo	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/06/17 13:17
S4	48	S2 same video	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/06/17 13:22
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S9	1	S5 and strength	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/06/17 13:28
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